



# RAPPORT D'ANALYSE D'HUILE

USURE	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
ÉTAT DU FLUIDE	<b>NORMAL</b>

Identité de la machine

**3299**

Composant

**Moteur diesel**

Fluide

**PETRO CANADA DURON SHP 10W30 (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0813033</b>	WC0813005	WC0758592
Date d'échant.		Client Info		<b>23 Jun 2023</b>	12 May 2023	14 Feb 2023
Âge d la Machine	mls	Client Info		<b>230917</b>	208381	161841
Âge de l'huile	mls	Client Info		<b>208381</b>	23231	24230
Âge du filtre	mls	Client Info		<b>22536</b>	23231	24230
Huile changée		Client Info		<b>Changed</b>	Changed	Changed
Filtre changé		Client Info		<b>Changed</b>	Changed	Changed
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>18</b>	19	29
Chrome	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>8</b>	6	13
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Métal blanc	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Bronze	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

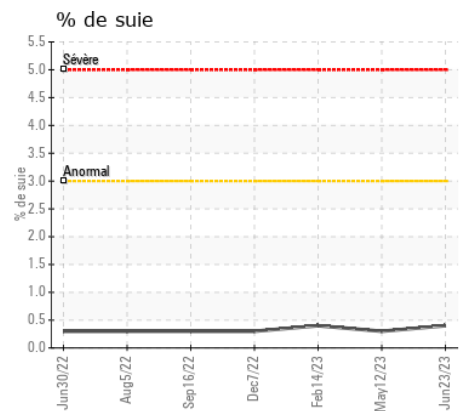
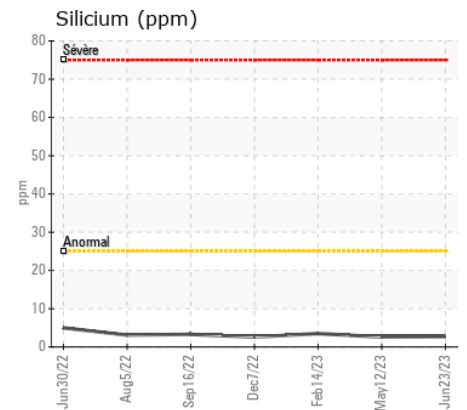
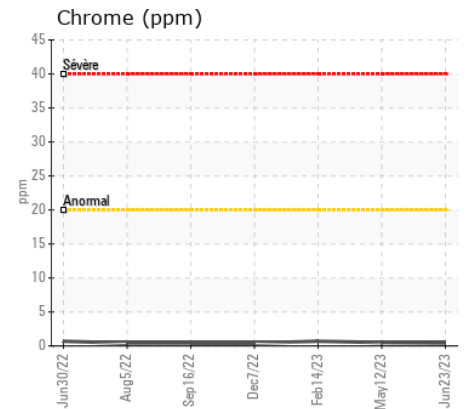
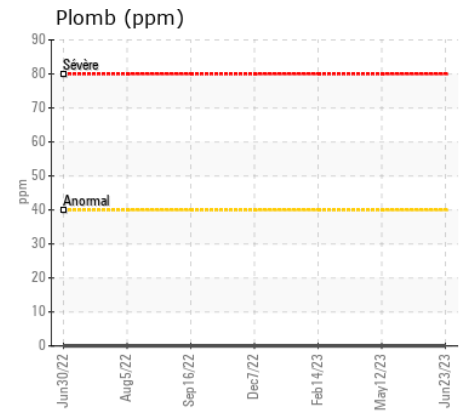
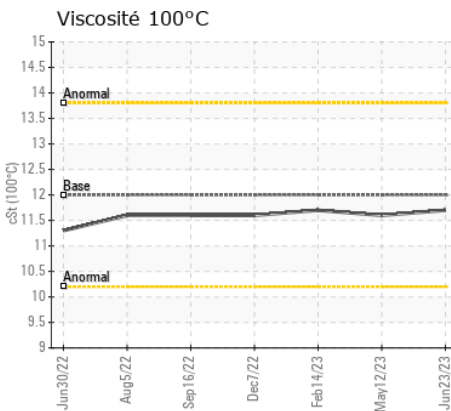
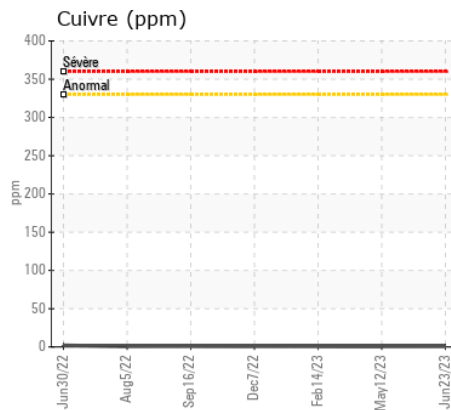
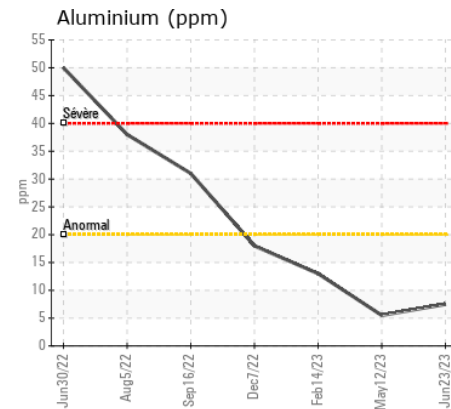
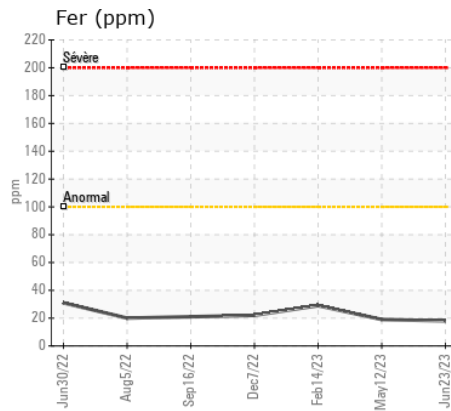
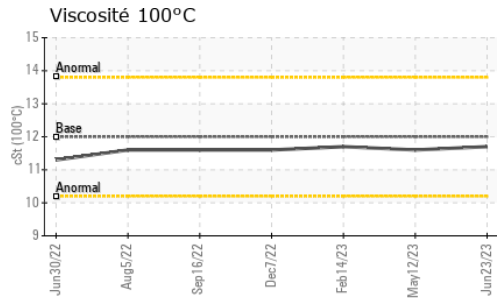
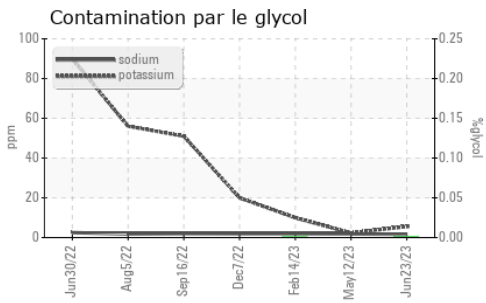
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	2	10
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	0.0
% de suie	%	ASTM D7844*	>3	<b>0.4</b>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.3</b>	9.6	11.2
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>22.2</b>	20.7	22.3
Limon	scalar	Visual*	NONE	<b>NONE</b>	---	---
Débris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Saleté	scalar	Visual*	NONE	<b>NONE</b>	---	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Bore	ppm	ASTM D5185(m)	2	<b>4</b>	4	4
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>66</b>	62	62
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>1086</b>	1037	1006
Calcium	ppm	ASTM D5185(m)	1050	<b>1150</b>	1118	1231
Phosphore	ppm	ASTM D5185(m)	995	<b>1155</b>	1098	1122
Zinc	ppm	ASTM D5185(m)	1180	<b>1315</b>	1272	1287
Soufre	ppm	ASTM D5185(m)	2600	<b>2672</b>	2547	2594
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>17.9</b>	17.1	20.8
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>11.7</b>	11.6	11.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0813033  
**N° de laboratoire** : 02579606  
**Numéro unique** : 5632666  
**Analyse** : MOB 1 ( Additional Tests: Glycol, Visual )

**Reçu** : 31 Aug 2023  
**Diagnostiqué** : 31 Aug 2023  
**Diagnostiqueur** : Wes Davis

**MANITOU LIN TRANSPORT**  
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Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.